

Claims

What is claimed is:

117. A method for presenting targeted advertisements in a telecom system, the method comprising:

- 5 forming a group for the reception of signals for the telecom system;
- forming a plurality of subgroups for the group;
- assigning a subgroup address to each subgroup;
- receiving a program stream;
- selecting one or more targeted advertisements for a first subgroup;
- 10 assigning an advertisement identifier to each of the targeted advertisements;
- creating a relationship between the subgroup address and the one or more advertising identifiers; and
- transmitting the program stream and the targeted advertisements selected for the first subgroup to the first subgroup.

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118. The method of claim 117, further comprising:

- selecting one or more targeted advertisements for a second subgroup; and
- transmitting the program stream and the advertisements selected for the second subgroup to the second subgroup.

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119. The method of claim 118, wherein said transmitting to the first subgroup and said transmitting to the second subgroup are performed simultaneously.

120. The method of claim 117, wherein the subgroups are formed by using multicast addresses.

121. A method for presenting targeted advertisements in a telecom system, the method
5 comprising:
forming a group for the reception of signals for the telecom system;
forming a plurality of subgroups for the group, wherein the subgroups are formed by using
multicast addresses [are] based on Internet multicasting protocol;
receiving a program stream;
10 selecting one or more targeted advertisements for a first subgroup; and
transmitting the program stream and the targeted advertisements selected for the first
subgroup to the first subgroup.

122. The method of claim 117, wherein the subgroups are based on cable nodes.
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123. The method of claim 117, wherein the subgroups are formed by transmitting an
MPEG signal over a cable television network.

124. The method of claim 117, wherein the subgroups are based on demographic
20 attributes.

125. The method of claim 117, wherein the subgroups are based on psychographic
attributes.

126. The method of claim 117, wherein the subgroups are based on product and brand usage attributes.

127. The method of claim 117, wherein said transmitting includes multiplexing the
5 program stream and the selected target advertisements at a centralized point to create a presentation stream.

128. The method of claim 127, wherein said multiplexing is performed in real-time.

10 129. The method of claim 127, wherein the selected target advertisements are stored temporarily in a storage for insertion at a later time.

130. The method of claim 127, wherein the program stream comprises one or more empty segments and during multiplexing the selected targeted advertisements are inserted in the
15 empty segments.

131. The method of claim 127, wherein the program stream comprises one or more default advertisements and during multiplexing the default advertisements are substituted with the selected targeted advertisements.

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132. The method of claim 117, further comprising inserting the selected targeted advertisements in the program stream at a client side.

133. The method of claim 132, wherein the client side is provided with the insertion time and the identification of the selected target advertisements.

134. The method of claim 132, wherein the program stream comprises one or more
5 empty segments and the identification of these empty segments is transmitted to the client side.

135. The method of claim 132, wherein the program stream comprises one or more default advertisements, and at the client side, the default advertisements are substituted with the selected targeted advertisements.

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136. The method of claim 117, wherein n program streams are combined with m advertisement streams resulting in p presentation streams, wherein p is greater than n .

137. The method of claim 117, wherein the program stream is transmitted as a first
15 digital signal and the targeted advertisements are transmitted as a second digital signal.

138. The method of claim 137, wherein the first digital signal is transmitted to the whole group and the second digital signal is transmitted only to a subgroup.

20 139. The method of claim 137, wherein the first digital signal is transmitted via a digital transport network over a first channel and the second digital signal is transmitted over a second channel.

140. The method of claim 139, wherein the first channel is a digital cable television channel and the second channel is a digital data channel in a cable television system.

5 141. A method for presenting targeted advertisements in a telecom system, the method comprising:

forming a group for the reception of signals for the telecom system;

forming a plurality of subgroups for the group;

receiving a program stream;

10 selecting one or more targeted advertisements for a first subgroup; and

transmitting the program stream and the targeted advertisements selected for the first subgroup to the first subgroup, wherein the program stream is transmitted as a streaming video channel over the Internet and the targeted advertisements are transmitted as an audio channel over the Internet.

15 142. A method for presenting targeted advertisements in a telecom system, the method comprising:

forming a group for the reception of signals for the telecom system;

forming a plurality of subgroups for the group;

20 receiving a program stream;

selecting one or more targeted advertisements for a first subgroup; and

transmitting the program stream and the targeted advertisements selected for the first subgroup to the first subgroup as streaming video channels over the Internet.

143. The method of claim 117, wherein the signals are cable-based video signals.

144. The method of claim 117, wherein the signals are broadcast-based video signals.

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145. A method for presenting targeted advertisements in a telecom system, the method comprising:

forming a group for the reception of signals for the telecom system, wherein the signals are Internet-based streaming video signals;

10 forming a plurality of subgroups for the group;

receiving a program stream;

selecting one or more targeted advertisements for a first subgroup; and

transmitting the program stream and the targeted advertisements selected for the first subgroup to the first subgroup.

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146. The method of claim 117, wherein the targeted advertisements are inserted into the program stream based on the advertisement identifiers.

147. The method of claim 146, wherein the insertion occurs at a centralized point.

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148. The method of claim 146, wherein the insertion occurs at a local end.

149. A method for presenting targeted advertisements in a telecom system, the method comprising:

forming a group for reception of signals from the telecom system;

forming a plurality of subgroups for the group;

assigning a subgroup address to each subgroup;

5 receiving a program stream;

selecting one or more targeted advertisements for a first subgroup;

assigning an advertisement identifier to each of the selected targeted advertisements;

creating a relationship between each subgroup address and each advertising identifiers;

multiplexing the program stream and the selected targeted advertisements at a centralized

10 location to create a first presentation stream; and

transmitting the first presentation stream to the first subgroup.

150. The method of claim 149, further comprising:

selecting one or more targeted advertisements for a second subgroup;

15 multiplexing the program stream and the selected targeted advertisements for the second

subgroup at a centralized location to create a second presentation stream; and

transmitting the second presentation stream to the second subgroup.

151. The method of claim 149, wherein said transmitting to the first subgroup and said

20 transmitting to the second subgroup are performed simultaneously.

152. The method of claim 148, wherein the subgroups are formed by using multicast addresses.

153. A method for presenting targeted advertisements in a telecom system, the method comprising:

forming a group for reception of signals from the telecom system;

5 forming a plurality of subgroups for the group, wherein the subgroups are formed by using multicast addresses based on Internet multicasting protocol;

receiving a program stream;

selecting one or more targeted advertisements for a first subgroup;

10 multiplexing the program stream and the selected targeted advertisements at a centralized location to create a first presentation stream; and

transmitting the first presentation stream to the first subgroup.

154. The method of claim 149, wherein the subgroups are based on cable nodes.

15 155. The method of claim 149, wherein the subgroups are formed by transmitting an MPEG signal over a cable television network.

156. The method of claim 149, wherein the subgroups are based on demographic attributes.

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157. The method of claim 149, wherein the subgroups are based on psychographic attributes.

158. The method of claim 149, wherein the subgroups are based on product and brand usage attributes.

5 159. The method of claim 149, wherein said multiplexing is performed in real-time.

160. The method of claim 149, wherein the selected target advertisements are stored temporarily in storage for insertion at a later time.

10 161. The method of claim 149, wherein the program stream comprises one or more empty segments and during said multiplexing the selected targeted advertisements are inserted in the empty segments.

15 162. The method of claim 149, wherein the program stream comprises one or more default advertisements and during said multiplexing the default advertisements are substituted with the selected targeted advertisements.

163. The method of claim 149, wherein n program streams are combined with m advertisement streams resulting in p presentation streams, wherein p is greater than n.

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164. The method of claim 149, wherein the selected targeted advertisements are inserted into the program stream based on the advertisement identifiers.

165. In a telecommunications network a method for presenting targeted advertisements in conjunction with program content, the method comprising:

identifying a group of clients for reception of at least one program;

5 forming a plurality of client subgroups from the group of clients, wherein the plurality of client subgroups contains at least a first subgroup and a second subgroup which are formed based on Internet multicasting protocols;

selecting a first targeted advertisement for the first subgroup;

selecting a second targeted advertisement for the second subgroup;

10 transmitting the first targeted advertisement to clients of the first subgroup;

transmitting the second targeted advertisement to the clients of the second subgroup;

presenting to the clients of the first subgroup the first targeted advertisement in conjunction with the program; and

presenting to the clients of the second subgroup the second targeted advertisement in
15 conjunction with the program.

166. The method of claim 165, wherein the transmission of the targeted advertisements to the first subgroup is a first multicast transmission and transmission of the targeted advertisements to the second subgroup is a second multicast transmission.

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167. The method of claim 165, wherein only those advertisements targeted for the first subgroup are transmitted to and received by the first subgroup and only those advertisements targeted for the second subgroup are transmitted to and received by the second subgroup.

168. The method of claim 165, wherein the presentation of the targeted advertisements occurs before the program, at the beginning of the program, after the program, at the end of the program, or during the program.

5 169. The method of claim 65, wherein the targeted advertisement presented to the first subgroup and the targeted advertisement presented to the second subgroup are presented to the client members of the respective subgroups at or about the same time within the program sequence.

10 170. The method of claim 165, wherein each subgroup represents a target market.

171. The method of claim 165, wherein the subgroups are formed based on at least one attribute from a set of attributes consisting of: geographic, demographic, psychographic, and preference attributes.

15 172. In a telecommunications network a method for presenting targeted advertisements in conjunction with program content, the method comprising:

 identifying a group of clients for reception of at least one program;

 forming at least a first subgroup and a second subgroup from the group of clients, wherein

20 the subgroups are formed based on at least one attribute from a set of attributes consisting of geographic, demographic, psychographic, and preference attributes that are deduced from a subscriber's IP address;

 selecting a first targeted advertisement for the first subgroup;

 selecting a second targeted advertisement for the second subgroup;

transmitting the first targeted advertisement to clients of the first subgroup;
transmitting the second targeted advertisement to the clients of the second subgroup;
presenting to the clients of the first subgroup the first targeted advertisement in
conjunction with the program; and
5 presenting to the clients of the second subgroup the second targeted advertisement in
conjunction with the program.

173. The method of claim 165, wherein the plurality of targeted advertisements are
delivered from a plurality of advertisement servers.

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174. A method for delivering targeted advertisements within an Internet radio station,
the method comprising:

forming a group of subscribers requesting said Internet radio station;

forming a plurality of subgroups of said group of subscribers;

15 selecting a first targeted advertisement for a first subgroup and selecting a second targeted
advertisement for a second subgroup; and

transmitting to the first subgroup, the targeted advertisement selected for the first
subgroup, and transmitting to the second subgroup, the targeted advertisement selected for the
second subgroup, such that the targeted advertisement selected for the first subgroup is presented
20 to the first subgroup in conjunction with said Internet radio station and the targeted advertisement
selected for the second subgroup is presented to the second subgroup in conjunction with said
Internet radio station.

175. A method of delivering targeted advertisements in conjunction with a program stream, the method comprising:

transmitting a first targeted advertisement to a first subgroup of client receivers using [a]

5 an Internet multicast protocol, wherein each of the first subgroup receivers belong to a first multicast subgroup; and

transmitting a second targeted advertisement to a second subgroup of client receivers using [a] an Internet multicast protocol, wherein each of the second subgroup receivers belong to a second multicast subgroup.

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176. The method of claim 175, wherein an intermediary receives the program stream, inserts targeted advertisements destined for a subgroup multicast, and multicasts the new presentation stream to the subscribers in that multicast subgroup.

15 177. The method of claim 175, wherein the targeted advertisements are requested or received from a plurality of different targeted advertisement servers.

178. A method of delivering targeted advertisements in conjunction with a program stream, the method comprising:

20 transmitting a first targeted advertisement to a first subgroup of client receivers using a multicast protocol, wherein each of the first subgroup receivers belong to a first multicast subgroup; and

transmitting a second targeted advertisement to a second subgroup of client receivers using a multicast protocol, wherein each of the second subgroup receivers belong to a second multicast subgroup;

wherein the program stream, the targeted advertisements, or both are delivered over a

5 DOCSIS channel.

179. The method of claim 175, further includes inserting the targeted advertisements in the program stream at a client side.

10 180. The method of claim 179, wherein the targeted advertisements are inserted into the program stream before the program is decoded.

181. The method of claim 179, wherein the client side is provided with the insertion time and the identification of the targeted advertisements.

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182. In a telecommunications network, a method for presenting targeted advertisements in conjunction with requested content material, the method comprising:

identifying a group for reception of at least one signal containing content material;

forming at least a first subgroup and a second subgroup, wherein members of the first
20 subgroup share a first common IP multicast address and members of the second subgroup share a second common IP multicast address;

creating a first set of targeted advertisements for the first subgroup;

creating a second set of targeted advertisements for the second subgroup;

combining the signal containing content material and the first set of targeted advertisements to form a first presentation stream;

combining the signal containing content material and the second set of targeted advertisements to create a second presentation stream;

5 transmitting the first presentation stream to the first subgroup; and
transmitting the second presentation stream to the second subgroup.

183. The method of claim 182, wherein the transmission of the first stream to the first subgroup is a first multicast transmission and the transmission of the second stream to the second
10 subgroup is a second multicast transmission.

184. The method of claim 182, wherein the said second presentation stream is neither transmitted to nor received by the first subgroup and said first presentation stream is neither transmitted to nor received by the second subgroup.

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185. The method of claim 182, wherein said transmitting to the first subgroup and said transmitting to the second subgroup are performed at about the same time.

186. The method of claim 182, wherein said combining occurs at a common central
20 location.

187. The method of claim 182, wherein said combining occurs at separate locations.

188. The method of claim 182, wherein said combining includes combining the targeted advertisements such that the temporal occurrence or sequence of the targeted advertisements with respect to the content material is one from a group consisting of: before the content material, after
5 the content material, or during and within the content material.

189. The method of claim 188, wherein the first set of targeted advertisements and the second set of targeted advertisements are combined with the content material at or about the same location within the content material sequence.

10 190. The method of claim 182, wherein each subgroup represents a target market.

191. The method of claim 182, wherein the subgroups are formed based on at least one attribute from a set of attributes consisting of: geographic, demographic, psychographic, and
15 preference attributes.

192. In a telecommunications network, a method for presenting targeted advertisements in conjunction with requested content material, the method comprising:

identifying a group for reception of at least one signal containing content material;

20 forming at least a first subgroup and a second subgroup, wherein the subgroups are formed based on at least one attribute from a set of attributes consisting of geographic, demographic, psychographic, and preference attributes deduced from a subscriber's IP address;

creating a first set of targeted advertisements for the first subgroup;

creating a second set of targeted advertisements for the second subgroup;

combining the signal containing content material and the first set of targeted advertisements to form a first presentation stream;

- combining the signal containing content material and the second set of targeted advertisements to create a second presentation stream;
- transmitting the first presentation stream to the first subgroup; and
- transmitting the second presentation stream to the second subgroup.

193. The method of claim 182, wherein the content material comprises one or more default advertisements and during said combining the default advertisements are substituted with the targeted advertisements.

194. The method of claim 182, wherein the plurality of selected targeted advertisements are delivered from a plurality of advertisement servers.

195. The method of claim 182, wherein the subgroups are disjoint and contain no members in common.

196. In a telecommunications network, a method for presenting targeted advertisements in conjunction with requested content material, the method comprising:

identifying a group for reception of at least one signal containing content material, wherein the signal containing content material is an Internet radio station;

forming at least a first subgroup and a second subgroup;

creating a first set of targeted advertisements for the first subgroup;

creating a second set of targeted advertisements for the second subgroup;
combining the signal containing content material and the first set of targeted
advertisements to form a first presentation stream;
combining the signal containing content material and the second set of targeted
5 advertisements to create a second presentation stream;
transmitting the first presentation stream to the first subgroup; and
transmitting the second presentation stream to the second subgroup.

197. A method for presenting targeted advertisements in a telecommunications system,
10 the method comprising:

forming a first presentation stream with advertisements targeted to a first subgroup;
forming a second presentation stream with advertisements targeted to a second subgroup,
wherein the subgroups are formed using Internet multicasting protocol;
multicasting the first stream to the first subgroup; and
15 multicasting the second stream to the second subgroup.

198. The method of claim 197, wherein the subgroups comprise one or more media
servers.

20 199. The method of claim 197, wherein the subgroups comprise one or more media
players.